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EXAMINER

EGAN, SCOTT T

ART UNIT	PAPER NUMBER
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2622

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/762,941

Applicant(s)

DARRELL ET AL.

Examiner

Scott Egan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:
 - a. On page 2, line 20 "425 millions" should be changed to -425 million-.
 - b. On page 3, the end of line 5 needs a period.
 - c. On page 4, line 6 "identify the his" should be changed to -identify his-.
 - d. On page 14, line 5 "affect it's the" should be changed to -affect the-.
 - e. On page 16, line 18 "keywords that helps" should be changed to -keyword that helps-.
 - f. On page 17, line 4 a closed parenthesis is needed after FIG. 5B.Appropriate correction is required.

2. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: Claims 27 and 28 mention types of data and comparison techniques, respectively, that are not mentioned or explained in the specification.

Claim Objections

3. Claims 20 and 21 are objected to because of the following informalities: both claims refer to "test", which should be changed to text.
Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 6, 9-14, 17, 18 and 25-28 are rejected under 35 U.S.C. 102(b) as being anticipated by Noda et al. (Cosmos: Convenient Image Retrieval System of Flowers for Mobile Computing Situations).

Consider **claim 1**, Noda et al. explicitly teach:

A mobile device (Figure 1) comprising:

(a) a camera to capture an image (digital camera and PDA, Figure 1);

(b) a wireless communication device (PHS, Figure 1), coupled to the camera and to a wireless network (WWW server, Figure 1), to communicate the image with existing databases to find similar images (Flower Database, Figure 1); and

(c) a processor (image retrieval, Figure 1), coupled to the wireless communication device, to process found database records related to similar images (pages 26 and 27, 3-3.4).

Consider **claim 2**, Noda et al. explicitly teach:

The mobile device as recited in Claim 1 comprising a display to view found database records and the found database records comprising web pages including images (PDA browser, Figure 1, Figure 5, page 28, 3.5).

Consider **claim 3**, Noda et al. explicitly teach:

The mobile deixis device as recited in Claim 1 comprising:

(a) a storage medium coupled to the processor (in order to perform the operations on page 26 and 27, 3-3.4 and extracting characteristics in Figure 2, it is inherent that there must be a memory and or storage medium); and

(b) a plurality of programs stored (it is inherent that these processing commands must be stored, page 25, 2 describes the operation of the invention, which includes control of the Cosmos device) in the storage medium operative to interact with the processor and the wireless communication device to control the operation of the mobile deixis device, comprising:

(i) a first program of the plurality of programs stored on the storage medium being operative to interact with the processor to capture the image from the camera (first we photograph a flower with a digital camera, then we send the image to a server, see page 25, 2);

(ii) a second program of the plurality of programs stored on the storage medium being operative to interact with the processor to communicate with at least one database to find a similar image similar to the captured image (sent characteristics and the extracted characteristics are used in order to retrieve objective images of flowers, see page 25, 2, these images are retrieved from the flower database as seen in Figure 1); and

(iii) a third program of the plurality of programs stored on the storage medium being operative to interact with the processor to provide to a display a

plurality of similar images and maintaining an associated hyperlink for each similar image (and the result of the retrieval is displayed on a web page constructed server. We look the page by a browser on the PDA and confirm the results, page 25, 2.1, see also page 28, 3.5 and Figure 5).

Consider **claim 5**, Noda et al. explicitly teach:

The mobile deixis device as recited in Claim 1 comprising:

(a) a storage medium coupled to the processor (in order to perform the operations on page 26 and 27, 3-3.4 and extracting characteristics in Figure 2, it is inherent that there must be a memory and or storage medium); and

(b) a plurality of programs stored (it is inherent that these processing commands must be stored, page 25, 2 describes the operation of the invention, which includes control of the Cosmos device) in the storage medium operative to interact with the processor and the wireless communication device to control the operation of the mobile deixis device, comprising:

(i) a first program of the plurality of programs stored on the storage medium being operative to interact with the processor to capture the image from the camera (first we photograph a flower with a digital camera, then we send the image to a server, see page 25, 2);

(ii) a second program of the plurality of programs stored on the storage medium being operative to interact with the processor to communicate with at least one computer having a database of images to cause the at least one computer to search the database of images to find a similar image similar to the

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captured image (sent characteristics and the extracted characteristics are used in order to retrieve objective images of flowers, see page 25, 2, these images are retrieved from the flower database as seen in Figure 1, database is interpreted as computer in that it has input, output and has to process in order to retrieve images from CD-ROMs mentioned on page 28, 4); and

(iii) a third program of the plurality of programs stored on the storage medium being operative to interact with the processor to provide to a display of a plurality of similar images and maintaining an associated hyperlink for each similar image (and the result of the retrieval is displayed on a web page constructed server. We look the page by a browser on the PDA and confirm the results, see also page 28, 3.5 and Figure 5).

Consider **claim 6**, Noda et al. explicitly teach:

The mobile deixis device as recited in Claim 1 comprising:

(a) a storage medium coupled to the processor (in order to perform the operations on page 26 and 27, 3-3.4 and extracting characteristics in Figure 2, it is inherent that there must be a memory and or storage medium); and

(b) a plurality of programs stored (it is inherent that these processing commands must be stored, page 25, 2 describes the operation of the invention, which includes control of the Cosmos device) in the storage medium operative to interact with the processor and the wireless communication device to control the operation of the mobile deixis device, comprising:

(i) a first program of the plurality of programs stored on the storage medium being operative to interact with the processor to capture the image from the camera (first we photograph a flower with a digital camera, then we send the image to a server, see page 25, 2);

(ii) a second program of the plurality of programs stored on the storage medium being operative to interact with the processor to communicate with at least one computer with web pages having images to search the images to find a similar image similar to the captured image (sent characteristics and the extracted characteristics are used in order to retrieve objective images of flowers, see page 25, 2, these images are retrieved from the flower database as seen in Figure 1, database is interpreted as computer in that it has input, output and has to process in order to retrieve images from CD-ROMs mentioned on page 28, 4, Figure 5 demonstrates the web pages that are returned from the computer); and

(iii) a third program of the plurality of programs stored on the storage medium being operative to interact with the processor to provide to a display of a plurality of similar images and maintaining an associated hyperlink for each similar image (and the result of the retrieval is displayed on a web page constructed server. We look the page by a browser on the PDA and confirm the results, see also page 28, 3.5 and Figure 5).

Consider **claim 9**, Noda et al. explicitly teach:

A system to provide location awareness services comprising:

(a) a handheld device (digital camera, PDA, PHS, Figure 1) comprising:

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(i) a camera to capture an image of an location (digital camera, Figure 1);
(ii) a mobile communication device (PHS, Figure 1), coupled to the camera and to a wireless network (WWW sever, Figure 1), to communicate the image with existing computer files to find similar images (page 25, abstract, lines 8-12); and

(iii) a user interface (PDA, Figure 1), coupled to the mobile communication device, to communicate to an user any results of found similar images (page 28, 3.5 and Figure 5); and

(b) a computer network including the wireless network (WWW server, Figure 1) and a wired network (flower database, Figure 2);

(c) a plurality of computers (WWW server and flower database, Figure 1), each computer have a plurality of computer files and connected to the computer network (process information files and flower information files respectively), at least one of the computer files having an image similar to the captured image and when viewed includes associated text describing an object in the image (page 26, paragraph 3, lines 8-13, see also Figure 5).

Consider **claim 10**, Noda et al explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein the user interface comprises a display (PDA, browser Figure 1, see also Figure 5).

Consider **claim 11**, Noda et al explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein the user interface comprises a computer connection (PDA connects to computers wirelessly through PHS, Figure 1).

Consider **claim 12**, Noda et al. explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein the associated text describes features of the object in the image including geographical location of the object (page 28, 3.5).

Consider **claim 13**, Noda et al. explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein the associated text describes features of the object in the image including a description and historical facts regarding the object (page 28, 3.5).

Consider **claim 14**, Noda et al. explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein the associated text includes a uniform resource locator (URL) (Figure 5, the word detail is considered the URL because when it is clicked the web address corresponding to the link is opened and seen in Figure 6).

Consider **claim 17**, Noda et al. explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein at least one of the computers includes at least one computer file having an image of an object of known interest and an associated image of an object of less recognized interest within a predetermined radius about a geographical location of the known interest object (section 3.1 describes the extraction of the flower, which is the isolation

of the image and at the same time the isolation of the surroundings, therefore it is inherent that the surroundings can be used to identify an object of less interest using the same methods describe in the experimentation with real images 4.1) to aid a user in finding the object of less recognized interest.

Consider **claim 18**, Noda et al. explicitly teach:

The system to provide location awareness services as recited in Claim 9 wherein at least one of the computers includes at least one computer file having an image of an object of known interest and an associated image of an object of less recognized interest within the field of view of the known interest object (section 3.1 describes the extraction of the flower, which is the isolation of the image and at the same time the isolation of the surroundings, therefore it is inherent that the surroundings can be used to identify an object of less interest using the same methods describe in the experimentation with real images 4.1) to aid a user in finding the object of less recognized interest.

Consider **claim 25**, Noda et al. explicitly teach:

A storage medium (in order to perform the operations on page 26 and 27, 3-3.4 and extracting characteristics in Figure 2, it is inherent that there must be a memory and or storage medium) comprising:

a first computer readable program code stored on the storage medium being operative to interact with a processor in a handheld device to capture an image from a camera (first we photograph a flower with a digital camera, then we send the image to a server, which contains the memory, see page 25, 2);

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a second computer readable program code stored on the storage medium being operative to interact with the processor to communicate with multiple data files and to search said data files for a similar image similar to the captured image (sent characteristics and the extracted characteristics are used in order to retrieve objective images of flowers, see page 25, 2, these images are retrieved from the flower database as seen in Figure 1, database is interpreted as computer in that it has input, output and has to process in order to retrieve images from CD-ROMs mentioned on page 28, 4); and

a third computer readable program code stored on the storage medium being operative to interact with the processor to provide to an user interface a plurality of similar images and maintaining an associated hyperlink for each similar image (and the result of the retrieval is displayed on a web page constructed server. We look the page by a browser on the PDA and confirm the results, see also page 28, 3.5 and Figure 5).

Consider **claim 26**, Noda et al. explicitly teach:

A method for identifying a location comprising the steps of:

- (i) providing a database of images, each image having an associated URL that includes said image and a description of the image (flower database, Figure 1, see display in Figure 5, and page 28, 3.5);
- (ii) comparing an image of an unknown location with images from the database of images and providing a list of possible matching images (comparing characteristics, Figure 2); and

(iii) reviewing the images in the list of possible matching images until the correct location is identified (page 25, 2.1, paragraph 3).

Consider **claim 27**, Noda et al. explicitly teach:

The method for identifying a location as recited in Claim 26 wherein the comparing step includes comparing at least one of energy spectrum data, color histogram data, primitive filter data, and local invariant data (pages 26-38, 3-3.4 mentions color characteristic extraction).

Consider **claim 28**, Noda et al. explicitly teach:

The method for identifying a location as recited in claim 26 wherein the comparing step comprises at least one of the techniques including a least square matching technique, a normalizing the image technique, an eigen value technique, a matching histogram of image feature technique and an image matching engine with transformation technique (pages 27-28, 3.4).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. ²²**Claims 4, 7, 15, 16, 19, 20, 21, and 24** are rejected under 35 U.S.C. 103(a) as being unpatentable over Noda et al. in view of Aarnio (US 6,522,889).

Consider **claim 4**, Noda et al. explicitly teach:

The mobile deixis device as recited in claim 3, including a second program being operative to interact with the processor to communicate with at least one server database (sent characteristics and the extracted characteristics are used in order to retrieve objective images of flowers, see page 25, 2, these images are retrieved from the flower database as seen in Figure 1).

However, Noda et al. do not explicitly teach that the database can search further databases for a similar image similar to the captured image.

In the same field of endeavor, Aarnio teaches a method and apparatus for providing precise location information through a communications network (Figures 1 and 3). Aarnio further teaches that the database to be accessed is a computer network 18, which may be the Internet, or World Wide Web (column 2, lines 57-60), which includes several databases that can then be checked.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the computer network found in Aarnio as the database in Noda et al. in order to pinpoint an exact location of the image by using the vast sources of the internet (column 1, lines 35-39).

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Consider **claim 7**, Noda et al. explicitly teach:

The mobile device as recited in Claim 3 wherein the at least one database includes a web site dispersed within the Internet (page 25, 2.1, end of paragraph 2) and a plurality of programs stored in the storage medium (it is inherent that these processing commands must be stored, page 25, 2 describes the operation of the invention, which includes control of the Cosmos device).

However, Noda et al. do not explicitly teach a program being operative to interact with the processor to identify any keywords linked to each similar image and a program being operative to interact with the processor to initiate a further search using the keywords to find additional similar images.

In the same field of endeavor, Aarnio teaches a method and apparatus for providing precise location information through a communications network (Figures 1 and 3). Aarnio further teaches a processor having a program in which digital image information can be searched directly or can be converted to binary text and these words can be further searched on the internet in order to find a location in accordance with the captured image (column 3, lines 50-67 through column 4, lines 1-27).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the text searching on the internet with words generated from the images found in Aarnio into the programs stored in the memory found in Noda et al. in order to enable the user to access location information such as street maps, locations of buildings, landmarks, etc. (column 4, lines 6-8).

Consider **claim 15**, Noda et al explicitly teach:

The system to provide location awareness services as recited in Claim 9, wherein at least one of the computers includes a plurality of computer files having images of fields of interest (flower database Figure 1).

However, Noda et al. do not explicitly teach that the database has information of locations of interest located within a predetermined radius about a geographical location.

In the same field of endeavor, Aarnio teaches a method and apparatus for providing precise location information through a communications network (Figures 1 and 3). Aarnio further teaches a server service 24 that provides information to the user about the surroundings in the geographical region (column 4, lines 33-38).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the information about the geographical surroundings found in Aarnio into the images found in the database of Noda et al. in order to provide a convenience for the user such as in a case described in column 4, lines 38-43.

Consider **claim 16**, the combination of Noda et al. in view of Aarnio, as applied to claim 15, further teaches the system to provide location awareness services as recited in Claim 15 wherein the computer having a plurality of computer files having images of objects of interest located within a predetermined radius about a geographical location (column 4, lines 33-38, Aarnio) was previously trained to find common objects known to be of interest (page 26-28, 3-3.5 explains the finding of common images).

Consider **claim 19**, Noda et al explicitly teach the system to provide location awareness services as recited in Claim 9, which includes at least one computer (flower database Figure 1).

However, Noda et al. do not teach that the computer has the capability of searching other computers to find matching files.

In the same field of endeavor, Aarnio teaches a method and apparatus for providing precise location information through a communications network (Figures 1 and 3). Aarnio further teaches that the database to be accessed is a computer network 18, which may be the Internet, or World Wide Web (column 2, lines 57-60), which includes several computers that can then be checked.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the computer network found in Aarnio as the database in Noda et al. in order to pinpoint an exact location of the image by using the vast sources of the internet (column 1, lines 35-39).

Consider **claim 20**, the combination of Noda et al. in view of Aarnio, as applied to claim 19, further teaches that the text that is found describing a matching image is communicated to the handheld device (page 25, 2.1, end of second paragraph).

Consider **claim 21**, the combination of Noda et al. in view of Aarnio, as applied to claim 19, further teaches that the text is returned to the computer that began the search (Figure 4, in Aarnio, shows that the information that is found is returned to the mobile system, which is the computer that began the search).

Consider **claim 22**, the combination of Noda et al. in view of Aarnio, as applied to claim 21 above further teaches the system to provide location awareness services as recited in Claim 21 wherein the computer that initiated the search is capable of comparing the original image with images returned in the computer file having text matching the associated text describing the object in the image (see figures 5 and 6, the PDA provides the user with the comparison of images that resulted from the original computer, database, to the image).

Consider **claim 24**, the combination of Noda et al. in view of Aarnio, as applied to claim 19, further teaches the system to provide location awareness services as recited in Claim 19 wherein at least one of the computers includes at least one computer file having an image of an object of known interest and an associated image of an object of less recognized interest within the field of view of the known interest object (section 3.1 describes the extraction of the flower, which is the isolation of the image and at the same time the isolation of the surroundings, therefore it is inherent that the surroundings can be used to identify an object of less interest using the same methods describe in the experimentation with real images 4.1) to aid a user in finding the object of less recognized interest all located within a predetermined radius about a geographical location.

7. **Claim 8** is rejected under 35 U.S.C. 103(a) as being unpatentable over Noda et al. in view of Reed (US/2005/0113113).

Consider **claim 8**, Noda et al. explicitly teach the mobile device as recited in claim 3 including programs stored in the storage medium operative to interact with the

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processor and the mobile communication device that are known to eliminated images based on comparison with other images, non matches.

However, Noda et al. do not explicitly teach that the device includes a GPS system to identify the geographical location of the deixis device and be used to eliminate certain matches found.

In the same field of endeavor, Reed teaches an enhance wireless phone (Figure 2). Reed further teaches that this wireless phone has a GPS system 26, which is described in paragraph [0114]. The GPS system locates the user and inherently would provide coordinates that could narrow down the image matching process.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the GPS capabilities of the mobile phone found in Reed into the Cosmos device found in Noda et al. in order to pinpoint exact locations and provide the user with the ease of mind of always knowing their location.

8. **Claim 23** is rejected under 35 U.S.C. 103(a) as being unpatentable over Noda et al. in view of Aarnio as applied to claim 15 above, and further in view of Reed.

Consider **claim 23**, the combination of Noda et al. in view of Aarnio teaches the system to provide location awareness services as recited in claim 15.

However, the combination does not explicitly teach that the system includes a GPS system receiver to identify the geographical location of the mobile communication device and help eliminate non-useful images.

In the same field of endeavor, Reed teaches an enhance wireless phone (Figure 2). Reed further teaches that this wireless phone has a GPS system 26, which is

described in paragraph [0114]. The GPS system locates the user and inherently would provide coordinates that could narrow down the image matching process.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the GPS capabilities of the mobile phone found in Reed into the system found in the combination of Noda et al. in view of Aarnio in order to pinpoint exact locations and provide the user with the ease of mind of always knowing their location.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lev et al. (US 2002/0102966) teaches and object identification method for a portable device, which takes a picture, sends the image to a server, which identifies the image and searches the internet for matching images, and finally returns results to a portable device. Boncyk et al. (US 7,016,532) teaches an image capture and identification system, which takes a picture, sends information to a database which returns best match in URL form. Wiedenhoefer (US 6,786,405) teaches a wireless device that communicates with remote sites and also has the capability of capturing images.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Egan whose telephone number is (571) 270-1452. The examiner can normally be reached on Monday-Friday 8:00 a.m. - 5:00 p.m., EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ngoc-Yen Vu can be reached on (571) 272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SE

A handwritten signature in black ink, appearing to read 'Ngoc-Yen Vu', is written over the printed name.

NGOC-YEN VU
SUPERVISORY PATENT EXAMINER